

SHUNIN, T.G.; KOROLEY. A.I.

Reducing idle time for open-hearth furnaces caused by cold or het repairs. Metallurg no.5:14-17 My 156. (MIRA 9:9)

1. Nachal'nik tsekha remonta promyshlennykh pechey Magnitogorskoge metallurgicheskogo kombinata (for Shunin). 2. Zamestitel' nachal'nika tsekha remonta promyshlennykh pechey Magnitogorskogo metallurgicheskogo kombinata (for Korelev).

(Magnitogorsk--Open-hearth furnaces--Repairing)

* Aleksandr Ivanovich KoroLEV

137-58-6-11728

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 73 (USSR)

AUTHOR:

Korolev, A.I.

TITLE:

Improving Open-hearth Furnace Design (Uluchsheniye kon-

struktsiy martenovskikh pechey)

PERIODICAL:

Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol

18, pp 199-207

ABSTRACT:

Enlargement of the batch capacity of the open-hearth furnaces of the Magnitogorsk Metallurgical Kombinat was accomplished by lengthening and widening the bath, with simultaneous reduction in depth. The service life of the front wall was increased by 200 heats by reducing its angle to the horizontal, installing heat exchangers in its upper portion and employing iron plating. Reduction of the slope of the rear wall and increase in its thickness increased its life to levels corresponding to that of the roof. The main roofs were made smooth, and the number of hangers was increased. All this increased service life to up to ~ 500 heats, in the case of large furnaces. Injectors were mounted in the furnaces; their operation was coordinated with the delivery of liquid fuel for carburetting.

Card 1/2

* Aleksandr Ivanovich KOROLEV

137-58-6-11728

Improving Open-hearth Furnace Design

Inadequate port size is the cause of frequent overheating and short service life; this has made itself felt recently in particular in connection with the increase in thermal stress. The use of forsterite did not afford favorable results in view of the considerable clogging of the ports by flue dust.

M.M.

1. Open hearth furnaces--Design 2. Open hearth furnaces--Equipment

Card 2/2

KOROLEV, A.I.; KOKSHAROV, V.D.

Use of unfired magnesite-chromite refractories for the laying of slag-pocket arches in open-hearth furnaces. Stal' 22 no.11:999-1000 N '62. (MIRA 15:11)

VORNOV, F.D.; BIGEYEV, A.M.; DIKSHTEYN, Ye.I.; TRIFONOV, A.G.; KAZAKOV.
A.I.; KOROLEY, A.I.; BORODIN, G.L.; ANTIPIN, V.G.; KULAKOV, A.M.;
KOZHANOV, M.G.; GAZHUR, V.F.

Investigating the operation of 400-ton open-hearth furnaces
following redesign. Stal' 22 no.10:904-907 0'62. (MIRA 15:10)

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy
gornometallurgicheskiy institut.
(Open-hearth furnaces)

KOROLEV, A.I., kand. tekhn. nauk

Statistical analysis of the quality of neutral relays in their manufacture. Sbor. trud. LIIZHT no.205267-71 163.

(MIRA 18%1)

Reliability of an electric switch and signal interlocking system. Ibid.:72-78

Synthesis of the reliability of electric automatic control networks. Ibid. 279-83

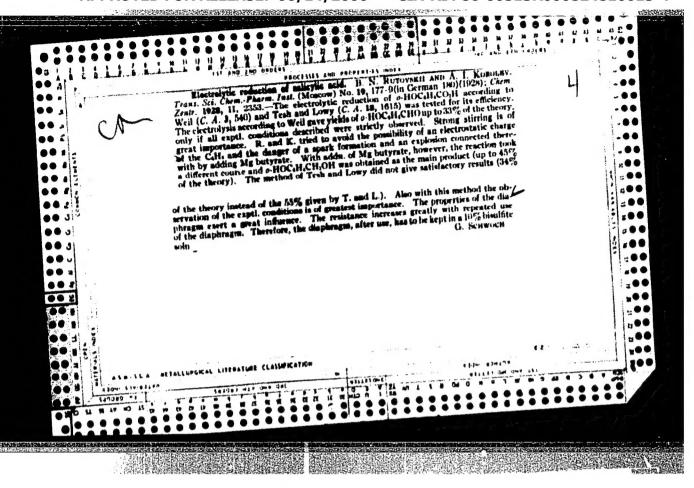
KOROLEV, A.I., kand. tekhn.nauk; MIRZOYEV, G.K.; SLYUDIKOV, L.D., kand. tekhn.nauk

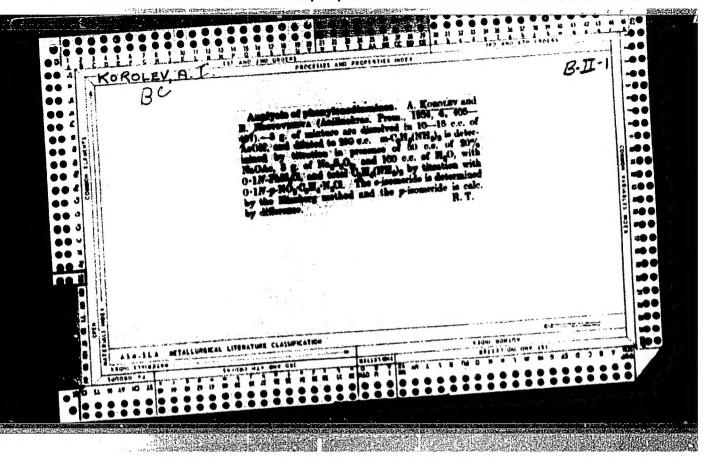
Investigating the effect of the front suspension and steering wheel drive on the wear of motor-vehicle tires. Avt.prom. 31 no.5:28-31 My '65. (MIRA 18:5)

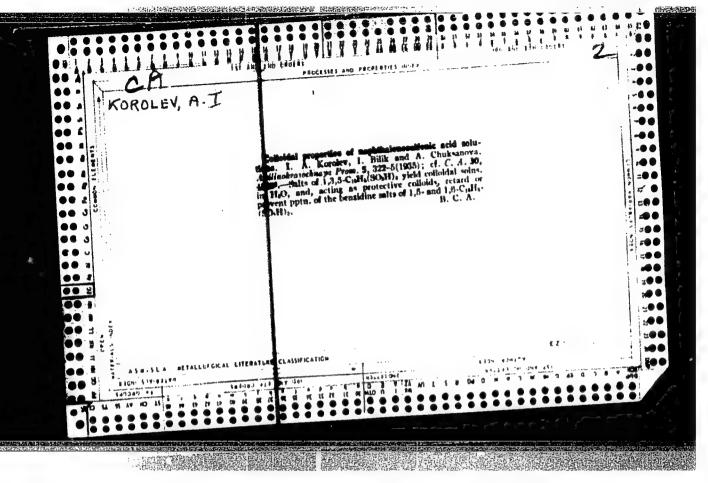
1. Moskovskiy avtomekhanicheskiy institut i Moskovskiy shinnyy zavod.

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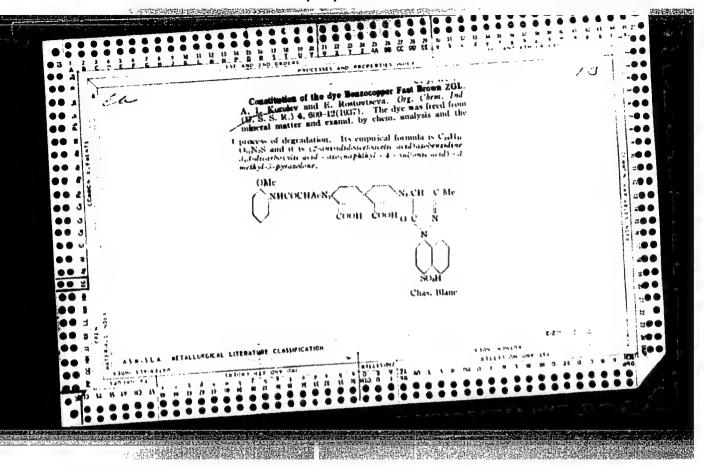


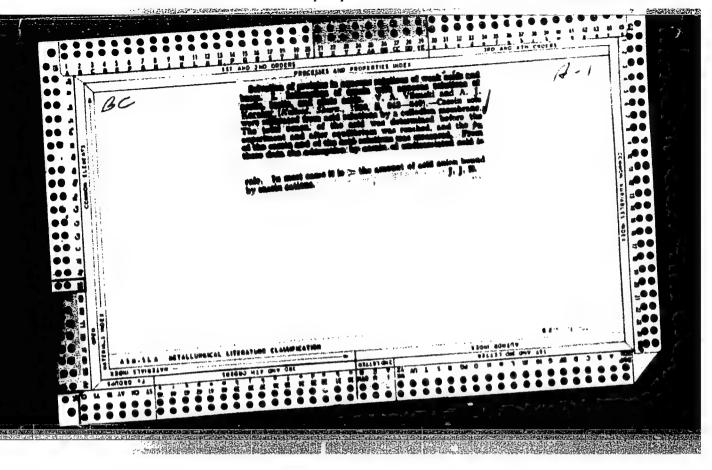


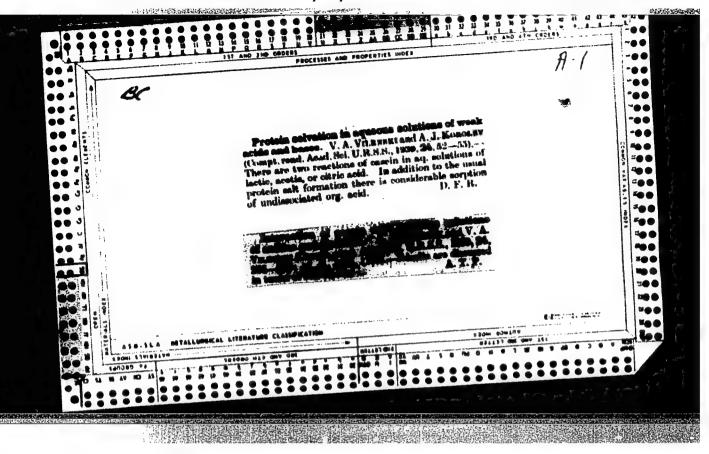


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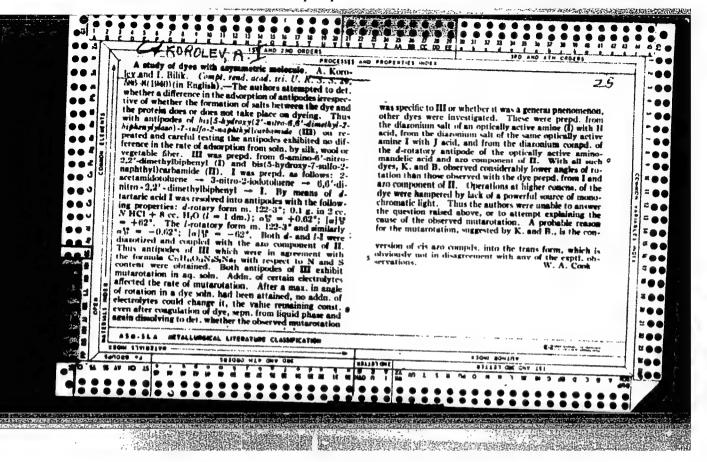


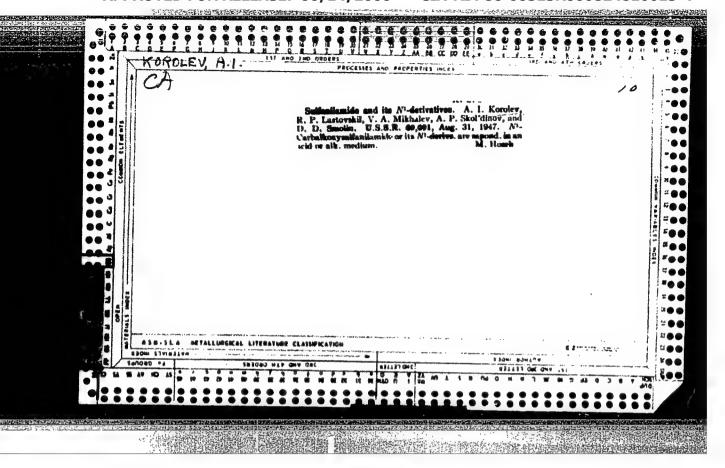




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E. 53114

Chemistry - Byes Chemistry - Intermediates

Dec 1947

"Enstitute of Intermediate Organic Products and Dyestaffs imeni K. Ye. Voroshilov," A. I. Korolev, Acting Dir, Inst Sci Matters, 3 pp

"Enim Prom" No 12

In 1915 Action Committee started first Russian dye factory, beginning of present day Institute. First named the Institute for Intermediate Organic Products and Dyestuffs in 1951. Mentions scientists currently employed in discovering new methods for increasing technical knowledge in field of dyestuffs and paints.

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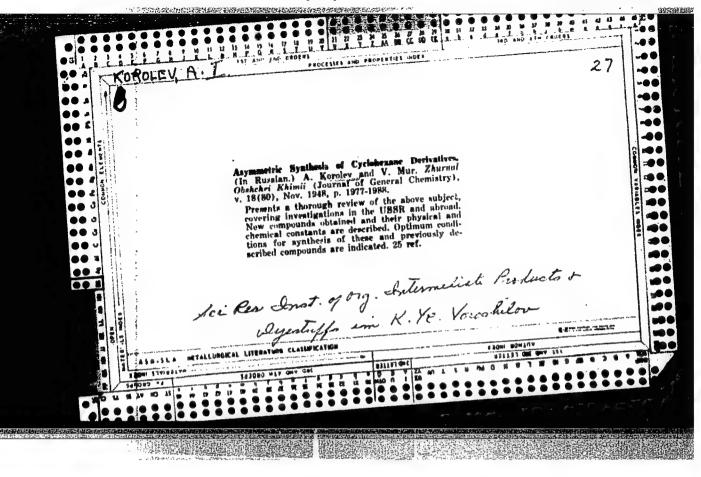
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810013-4"
USSR/Academy of Sciences - Scientist
Nov 48

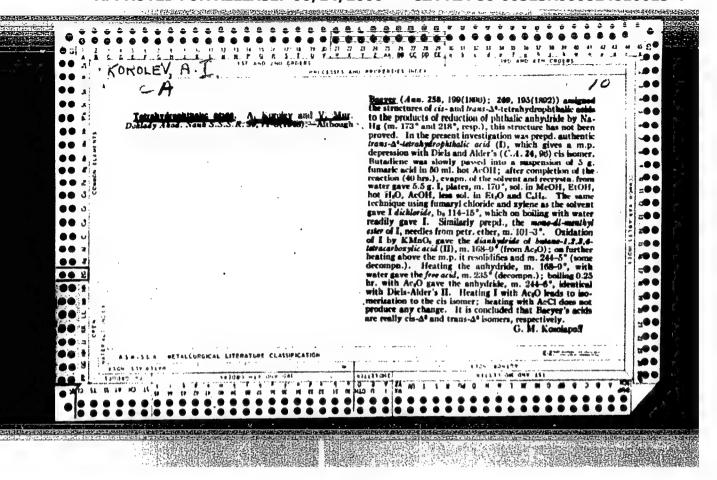
"In Honor of Academician Valdimir Mikhaylovich Rodionov," M. Shemyakin, A. Korolev, 201 pp

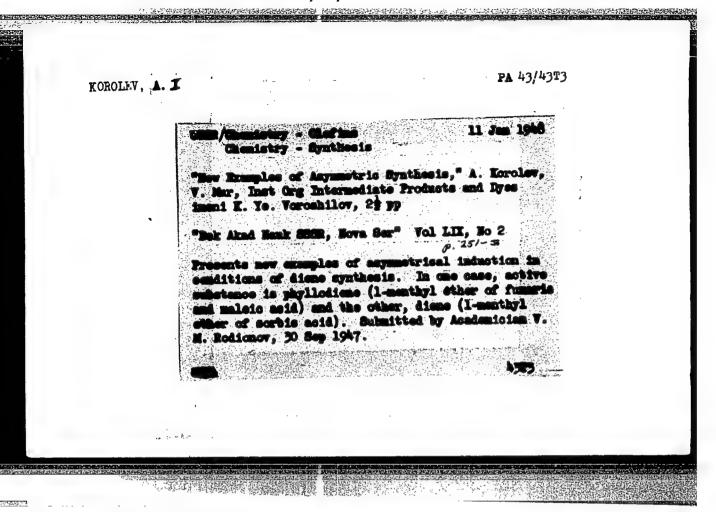
"Zhur Obshch Khim" Vol XVIII, No 11 p. 1877-97

Bibliographic resume of the life and works of noted scholar, engineer, and pedagogue, one of the organizers of the industries for the production of alkaloids, pharmaceutical preparations, organic intermediate products and dyes, and a laureate of the Stalin Prize, in honor of his 70th birthday. (See Photo Accession No P-3466.) Submitted 2 Jun 48

PA 67/49T2







USER/Scientists - Chemistry

Gard 1/1 : Pub. 151 - 37/37

Authors : Rodionov, V. M.; Vorozhtsov, N. N.; Smirnova, A. F.; Shchetinina, L. A.; Shestov, A. P.; Korolev, A. I.; Lukashevich, V. O.; and Ufimtsev, V. N.

Title : In memory of Evgeniy Alekseevich Ivanov

Periodical : Zhur. ob. khim. 24/3, 579-580, Mar 1954

Abstract : Eulogy is presented honoring the passing of E. A. Ivanov, chief of the Central Laboratory of the Dorogomilov-Frunze Chemical Plant, scientist in the field of organic semi-products and dyes, recipient of Stalin premium. Illustration.

Institution:

Submitted : *****

KOROLEV, A.I

USSR/Scientists

Card 1/1 Pub. 151 - 37/37

Authors : Korolev, A. I.

Title : In memory of Robert Karlovich Eykhman

Periodical: Zhur. ob. khim. 24/10, 1893-1895, Oct 1954

Abstract : Eulogy honoring the death of Dr. of Techn. Sciences R. K. Eykhman (1879-

1953), famous specialist and organizer of the Soviet Aniline-Dye Industry.

List of works by Eykhman, is included. Illustration.

Institution : ...

Submitted : ...

USSR/Chemistry - Dyestuffs KOROLEV, H. I

FD-2523

Card 1/1

Pub. 50 - 2/14

Author

: Prof. Korolev, A. I.

Title

The 100-th anniversary of the discovery of the first synthetic

aniline dyestuff

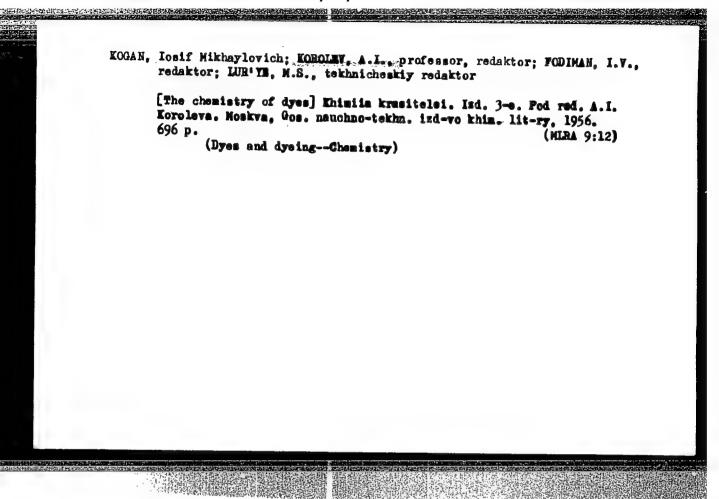
Periodical

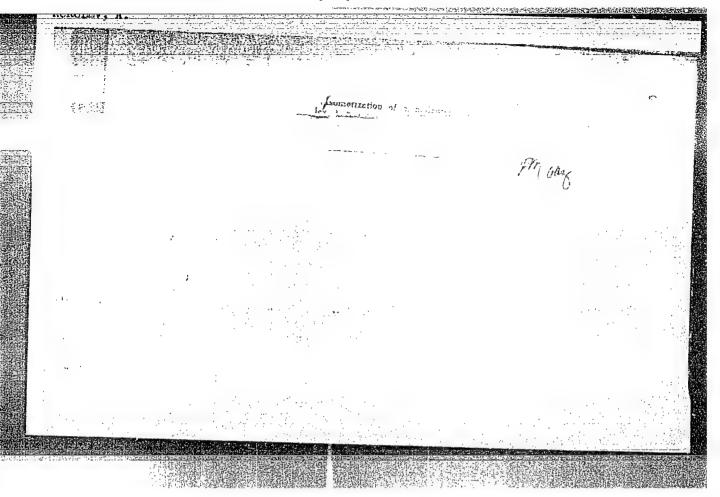
: Khim. prom. No 4, 195-202, Jun 1955

Mostract

: After a historical treatment in which an attempt is made to establish Russian priorities in work on synthetic dyestuffs, outlines briefly some contemporary achievements of dyestuff chemistry with particular attention to color fastness, especially fastness to light. Mentions some recent USSR work. Eleven ref-

erences, 8 Russian and USSR, 7 prior to 1940, one 1940.





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KOROLEV. A.I., prof.; FODIMAN, I.V., kand. tekhn. nauk.

Present state and trends in the development of the chemistry and manufacture of synthetic dyes. Khim. nauka i prom. 3 no.2:138-145 (MIRA 11:6)

(Dyes and dyeing)

A 4.

KOROLEV, A.I., otv.red.; VUL'FSON, N.S., zam.otv.red.; BOGDANOV, S.V., red.; DOKUNIKHIN, N.S., red.; MASIMHNIKOVA, Ye.V., red.; FODIMAN, I.V., red.; KHOMSKIY, I.G., red.; ZETKIN, V.I., red.; SHPAK, Ye.G., tekhn.red.

[Organic intermediate products and dyes; collected articles]
Organicheskie poluprodukty i krasiteli; sbornik statei. Moskva,
Gos.nauchno-tekhn.isd-vo khim.lit-ry. No.1. 1959. 238 p.
(MIRA 13:7)

1. Nauchno-issledovatel'skiy institut organichaskikh poluproduktov i krasiteley.

(Dyes and dyeing) (Aromatic compounds)

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APPROVED FOR RELEASE: 06/14/2000 ECRCLEV, A.I.; MURYONA, Ye.H.

CIA-RDP86-00513R000824810013-4"

Mechanism of isomerization in the series of naphthalene derivatives.

Org. poluprod. i kras. no.1:83-86 '59. (FIRA 14:11)

(Isomerization)

(Haphthalene)

Mochenics of Grains animal filters. Org. policy rod. i bras. po.1:339-337 157.

(Dyes and dye rg-2 atile filters)

NIKOLENKO, Leonid Nikolayevich; KOROLEV, A.I., prof., red.; STUKOVNIN, N.D., red.izd-va; GOROKHOVA, S.S., tekhn. red.

[Practical laboratory work in intermediate products and dyes] Laboratornyi praktikum po promezhutochnym produktam i krasiteliam. Moskva, Gos. izd-vo "Vysshaia shkola," 1961. 383 p. (MIRA 15:3)

(Dyes and dyeing—Chemistry) (Chemistry—Laboratory manuals)

KOROLEV, A.I.; MUR, V.I.

Investigation in the field of asymmetric synthesis. Org. poluprod. (MIRA 14:11)

i kras. no.2:77-87 *61.
(Chemistry, Organic--Synthesis)

ERKIKH, R.D.; DOBROVOL'SKIY, S.V.; KOROLEV, A.I.

Catalytic conversions of N,N-dialkylcyclohexylamines. Dokl. AN SSSR 136 no.6:1357-1359 F. 61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley im K. Ye. Voroshilova. Predstavleno akademikom B. A. Kazanskim.

(Cyclohexylamine)

MUR, V.I.; GORBUNOVA, Zh.A.; KOROLEV, A.I.

Description of reactive dyes. Zhur.VKHO 6 no.5:586-587 161.

- 1. Nauchno-issledovatel skiy institut organicheskikh poluproduktov
- i krasiteley imeni K.Ye. Voroshilova.
 (Dyes and dyeing)

MUR, V. I., GORBUNOVA, Zh. A., KOROLEV, A. I.

Study of the mechanism of hydrolysis of esters. Zhur. VKHO 8 no.2:232 163. (MIRA 16:4)

1. Mauchno-issledovatel'skiy institut organicheskikh pelupro-duktov i krasiteley.

(Esters) (Hydrolysis)

MUR, V. I.; GORBUNOVA, Zh. A.; KOROLEV, A. I.

Hydrolysis of esters of cyanuric acid and some of its derivatives, Zhur, VKHO 8 no.2:235 163, (MIRA 16:4)

1. Mauchno-issledovatel'skiy institut organicheskikh polupro-duktov i krasiteley.

(Cyanuric acid) (Hydrolysis)

KARPUKHIN, Petr Prokhorovich; KOROTENKO, Tamila Aleksandrovna, inzh.; CHEKALIN, M.A., doktor khim. nauk, retsenzent; KOROLEV, A.I., kand. khim. nauk, retsenzent; TSYBA, L.A., insh., red.izd-va; TERESHCHENKO, V.V., tekhn. red.

[Active dyes] Aktivnye krasiteli. Kiev, Gostekhizdat USSR, 1963. 132 p. (MIRA 17:1)

1. Chlen-korrespondent AN Ukr.SSR (for Karpukhin).

KOROLEV, A.I.; MUR, V.I.; AVAKYAN, V.G.

Diels-Adler reaction in a partial asymmetrical synthesis. Zhur.ob.khim. 34 no.2:708 F '64. (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

FRLIKH, R.D.; DOBROVOL SKIY, S.V.; KOROLEV, A.I.

Calabytic methylation of cyclohexanone with dimethylamine. Zhur. VKFO 10 no.2:233-234 455. (MIRA 18:6)

l. Nauchňo-issledovatel'skiy institut organicheskikh polupreduktov i krasiteley.

TildBallot, tala; CMARTMICA, GaGa, veter, vrach (Chachenosingushskaya acci., KUROLEV, tala, veter, vrach (Chachenosingushskaya ASSA); Turit, Telas, veter, vrach (Chachenosingushskaya ASSA);

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Provinces in the elimination of braceillasis in cattle. Veterinaria 41 no.10:23-24 0 %64.

(MIRA 18:11)

1. Glavnyy veterinarnyy vrach bologodskogo oblastnego uprav seniga pecizvijstra i zagotovek seliskokhosyaystvennykh produktov (for TSimbalist).

KHOMCHENKO, G.P.; KOROLEV, A.K.

Aleksandr Ivanovich Shlygin, 1905-; on his sixtieth birthday. Zhur. fiz. khim. 39 no.9:2328-2329 S *65. (MIRA 18:10)

PED'KO, A.I.; DERGUNOV, V.I.; KARASIK, G.Ye.; KOROLEV, A.K.

Effect of the dimensions of bit-support elements on the jamming of cutters. Izv. vys. ucheb. zav.; neft' i gaz. 8 no.5:101-104 '65. (MIRA 18:7)

l. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova; zavod neftyanogo oborudovaniya im. S.M.Kirova i upravleniye "Glavmorneft'".

ARBUZOV, Yu.A.; KOROLEV, A.M.

Diene synthesis involving acetoxymethyl vinyl ketone. Zhur.ob.khim. 32 no.11:3674-3676 N '62. (MIRA 15:11)

 Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Ketone)
 (Chemistry, Organic—Synthesis)

APPROXED FOR RELEASE: 106/14/2000, A.M. CIA-RDP86-00513R000824810013-4"

Diene synthesis involving 1-methoxy-4-penten-3-one and 1,4-pentadien-3-one. Zhur.ob.khim. 32 no.11:3681-3687 N '62. (MIRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Pentenone) (Pentadienone) (Chemistry, Organic—Synthesis)

KOROLEV, Aleksandr Mikhaylovich

[Influenza and its prevention] Gripp i mery bor'by s nim. [Gor'kii]
Gor'kovskoe km-vo. 1955. 23 p. (MIRA 9:11)

(INFLUENZA)

Expulsion of ascarids by oxygen. Fel'd. i akush. 21 no.7:44-45
J1 '56.

(ASCARIDS AND ASCARIASIS)

(OXYGEN--THERAPEUTIC USE)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810013-4"

COROLEV, A.M.

Diabetes insipidus of traumatic origin. Vrach.delo no.72741 J158
(MIRA 11:9)

1. Terapevticheskoye otdeleniye (zav. -T.N. Shubina) Kirovskoy
oblastnoy bol'nitsy.
(DIABETES)

KOROLEV, A.H.

Intravital diagnosis of lymphogranulomatosis of the stomach.

(MIRA 12:11)

1. Glavnyy terapevt Kirovskogo oblzdravotdela. (HODGKIN'S DISMASE) (STOMACH--DISMASES)

Kaz.-med.zhur. 40 no.2:67-69 Mr-Ap 59.

KOROLEV, A.M. (Kirov-obl.)

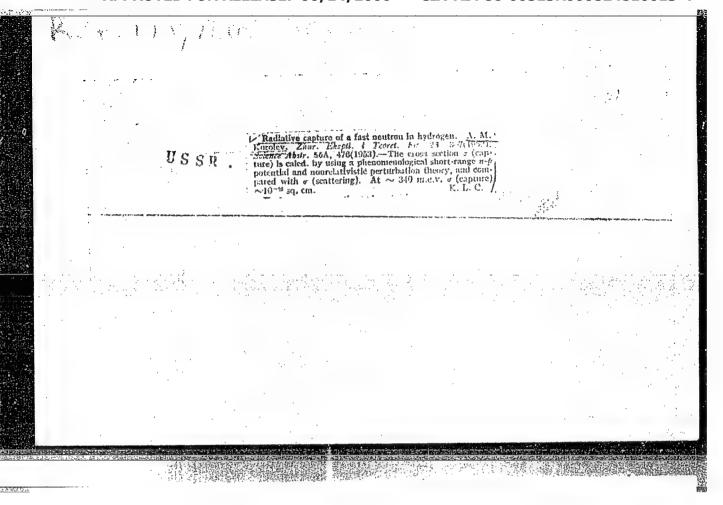
Unilateral stasis in the lungs as a supplemental symptom of myocardial infarct. Kas. med. shur. no.5:70-71 S-0 '61. (MIRA 15:3) (HEART-INFARCTION)

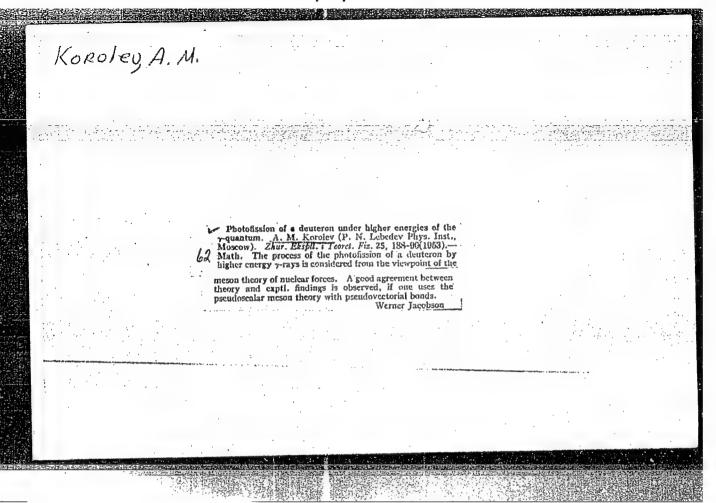
KOROLEV, A.M.

Dispensary treatment for healthy persons and patients with cardiovascular diseases in Kirov Province. Kardiologiia 4 no. 4186 Jl-Ag ' 64 (MIRA 19:1)

1. Glavnyy terapewt Kirovskogo oblastnogo zdravotdela.

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Karoley A.M.

USSR/Theoretical Physics

B-6

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, No 10948

Author

: Korolev, A.M.

Inst

Institute of Physics, Academy of Sciences, Ukrainian SSR.

Title

: Dynamic Magnetic Moment of the Deuteron.

Orig Pub

: Zh. eksperim. i teor. fiziki, 1956, 31, No 2, 211-217

Abstract

The author considers the dynamic magnetic moment of the deuteron in the PS(PS) variant of the symmetric meson theory in the fifth approximation of the perturbation theory. Account is taken of the interaction between the meson currents in the deuteron with the electromagnetic field and from the energy of this interaction a term is separated, having the form of the energy of the magnetic moment, interpreted as the additional magnetic moment of the deuteron. It is shown that in the case of exchange

Card 1/2

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B-6

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, No 10948

with an odd number of mesons, the additional magnetic moment vanishes in this variant of the theory. An analytic expression for the dynamic magnetic moment is obtained in the non-relativistic approximation with an accuracy to terms on the order of (k/M)2 inclusive. By way of an example, the author considers the application of the above expression for the magnetic moment of the deuteron to an examination of photofission of the deuteron in the Pauli approximation. The results obtained are in qualitative agreement with the experiment.

Card 2/2

KOROLOV, A.M. [Korol'ov, O.M.]; KONSTANTINOV, B.D.

Hastic neutron scattering in a spherical scatterer [with summary in Haglish]. Uhr. fis. shur. 2 no.4:303-309 O-D '57. (MIRA 11:3)

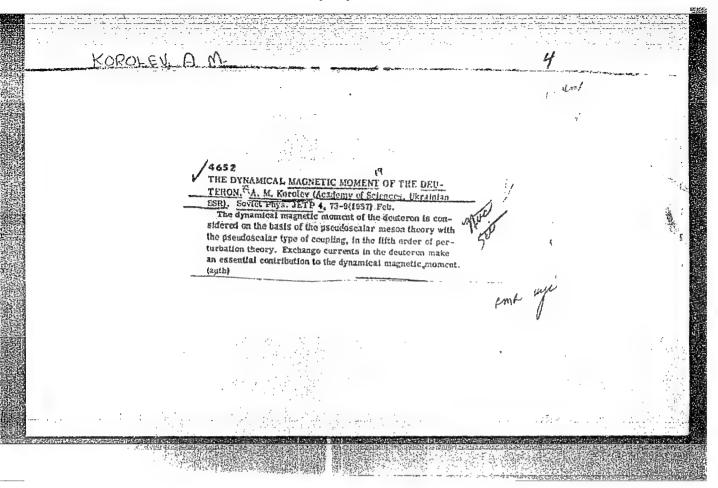
1. Institut fisiki AN URSR. (Heutrons—Scattering)

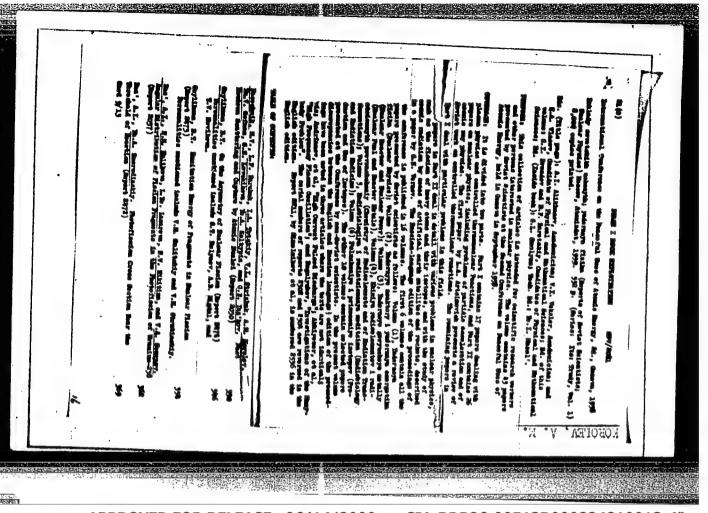
KOROLEW, A.M. [Korol'ov, O.M.].

Quesi-stationary states of the nucleus, Ukr. fiz. zhur. 2 no.4:369-(MIRA 11:3)
371 O-V '57.

1. Institut fiziki AN URSR.
(Nuclei, Atomic)

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37861 R S/048/59/023/012/007/009 B102/B212

24.6110

AUTHOR:

Korolev, A. M.

TITLE:

Energy levels of weakly deformed nuclei

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 23, no. 12, 1959, 1492-1496

TEXT: The present paper was the topic of a lecture read at the 9th All-Union Conference on Nuclear Spectroscopy (Khar'kov, January 26 till February 2, 1959). In order to explain the nuclear energy level schemes, the surface interaction of nucleons has been used various times on the strength of the generalized nuclear model of Bohr and Mottelson. It has been applied for a strong interaction of an extra nucleon with the nuclear surface and also for a weak interaction. The rotational levels of strongly deformed nuclei, which have been discovered experimentally, are proof of the validity of this generalized nuclear model. A number of questions were not clarified in these papers, such as the influence of non-adiabatic terms on the position of the energy level and also the influence of two- and three-phonon states. The author is considering the steady states of odd

Card 1/7

S/048/59/023/012/007/009 B102/B212

Energy levels of weakly deformed nuclei

nuclei in intermediate coupling; he also utilizes the generalized nuclear model and takes into account single-phonon and two-phonon states. He analyzes a system consisting of an even-even core (near the magic nucleus) and an extra nucleon interacting with the core surface. The solution of this problem calls for determining the eigenfunctions and the eigenvalues of the bound extra nucleon. Due to surface interaction, the nucleus will be deformed; this deformation is assumed to be weak, i.e., the intermediate coupling approximation may be approached from the weak coupling. The collective excitations of the core are investigated with the help of the generalized Bohr model. The Hamiltonian of a system consisting of a spherical nucleus and an extra nucleon and interacting with its surface is set up as follows: $H = H_+ + H_- + H_-$, where

is set up as follows:
$$H = H_s + H_p + H^{\dagger}$$
, where
$$H_s = \sum_{\lambda\mu} \left\{ \frac{1}{2B_{\lambda}} \left| \pi_{\lambda\mu} \right|^2 + \frac{c_{\lambda}}{2} \left| \alpha_{\lambda\mu} \right|^2 \right\};$$

the Hamiltonian of the surface vibrations of the nucleus reads:

$$H_{p} = -\frac{\lambda^{2}}{2M} \frac{d^{2}}{dr^{2}} + \frac{h^{2}l(1+1)}{2Wr^{2}} + V(r),$$

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S/048/59/023/012/007/009 B102/B212

Energy levels of weakly deformed nuclei

and that of the free neutron: $H' = -kR_0\delta(r-R_0)\sum_{\mu}\alpha_{2\mu}(\theta,\phi)$; $\alpha_{\lambda\mu}$ represents the deformation parameter of the nuclear surface; $\alpha_{2\mu}$ denotes an operator acting on the wave function that describes the state of the nuclear surface; $\alpha_{2\mu} = \sqrt{\frac{\hbar}{2B\omega}} \left(b_{\mu} + (-1)^{\mu} b_{-\mu}^* \right)$, $\omega = \sqrt{C_{\lambda}/B_{\lambda}}$. b_{μ} and $b_{-\mu}^*$ denote the phonon annihilation and production operators. In the Schrödinger equation of the steady-state problem: $HY = W_{1}^{NY}$, where Y denotes the function describing the state of the system, N the number of phonons, and I the total momentum of the system, $\Psi = \sum_{NRk1} \alpha_{NRk1}(p) \psi_1(r) \phi_N[Rs(k)lIM]$, where the wave function is

given by

 $\Phi_{N}[Rs(k) IIM] = \sum_{m} \sum_{m_{s}} (RsM - m - m_{s}m_{s} | RskM - m) \times \\
\times (klM - mm | klIM) Y_{lm}(\theta, \varphi) \chi_{s}^{m_{s}} \Phi_{NR}^{M-m-m_{s}} \tag{7}.$

Here, M denotes the projection of I on the z-axis, R the angular momentum of Card 3/7

S/048/59/023/012/007/009 B102/B212

Energy levels of weakly deformed nuclei

the core, k the spin of the channel, 1 the orbital momentum of the extra nucleon, and s the particle spin. From this results:

 $\Psi = \sum_{N,j \in \mathbb{N}} b_{N1,jR} \psi_1(r) \widetilde{\phi}_H[R;sl(j)]$

with

$$b_{NljR} = \sum_{k} (2k+1)^{1/2} (2j+1)^{1/2} W(RsIl; kj) a_{NRkl}, \qquad (8)$$

$$a_{NRkl} = \sum_{j} (2k+1)^{l/l} (2j+1)^{l/l} W(RsIl; kj) b_{NRjl},$$
 (8')

where W(abcd; ef) denotes the Racah coefficient. The amplitude equations are obtained from the Schrödinger equation; the following expression is obtained (in Tamm-Dancoff approximation) for the amplitudes of the phonon-free, single-phonon, and two-phonon states

$$(W - E_{10}) A_{0} = \sum_{n'} H_{0n'} \psi_{l'}^{2} B_{n'};$$

$$(W - E_{11}) B_{n} = H_{n0} \psi_{l_{n}}^{2} A_{0} + \sqrt{2} \sum_{r'} \dot{H}_{nr'} \psi_{l'}^{2} C_{r'};$$

$$(W - E_{12}) C_{r} = \sqrt{2} \sum_{n'} H_{rn'} \psi_{l'}^{2} B_{n'}.$$
(12)

Card 4/7

s/048/59/023/012/007,009 Energy levels of weakly deformed muclei $H_{0n} = -\widetilde{g} \left[(2l+1) (2k+1) \right]^{l/s} (l \, 200 \, | \, l \, 2 \, l_0 \, 0) \, W \, (l_0 \, 2Ik; \, ls);$ (13) (13)(13') $H_{rn'} = -\frac{g}{g} [(2l+1)(2R+1)(2k+1)(2k'+1)]^{V_s} \times \frac{[(13')]}{(l \ 200 \ | \ l \ 2 \ l' \ 0) \ W (2k'Rs; k2) \ W (k' \ 2 \ Il; kl').}$ From (151) $\tilde{g} = kR_0 \left[\frac{\hbar}{2B\omega} \cdot \frac{5}{4\pi} \right]^{1/\epsilon}.$ где Используя (13) и (13'), можно решить систему уравнений (12). Амплитуды $A_0,\ B_n$ и C_r связаны условиями: follow the solutions of (12) as $\phi_{l_0}(R_0) A_0 = \frac{1}{\sqrt{N(W_I, l_0)}};$ $B_{kl} = -\widetilde{g} \left[(2l+1)(2k+1) \right]^{l_k} (l \, 200 \, | \, l \, 2 \, l_0 0) \, W \, (l_0 2Ik; \, ls) \, \frac{\psi_{l_0}^2 A_0}{(W_l - E_{l_1} - 2\widetilde{g}^2 \alpha_{l_2})};$ $C_{Rkl} = \sqrt{2}\widetilde{g}^2 \left[(2R+1)(2k+1) \right]^{l_k} W \, (kRIl_0; \, sl) \, \sum_{l} (2l'+1) \, W(2Rl'l_0; \, 2l) \times \left[\frac{1}{2} \right]^{l_0}$ Card 5/7

5/048/59/023/012/007/009 B102/B212

Energy levels of weakly deformed nuclei

$$N(W_{I}l_{0}) = 1 + \widetilde{g}^{2} \sum_{l} \frac{(l_{0} 200 \mid l_{0} 2l0)^{2} \psi_{l}^{2} \psi_{l_{0}}^{2}}{(W_{I} - E_{11} - 2\widetilde{g}^{2} \alpha_{12})^{3}} \left(1 + 2\widetilde{g}^{2} \sum_{l'} \frac{(l200 \mid l2l'0)^{2} \psi_{l}^{2} \psi_{l_{0}}^{2}}{(W_{I} - E_{12})^{3}}\right),$$

$$\alpha_{l,1} = \sum_{l} \frac{(l_{0} 200 \mid l_{0} 2l0)^{2} \psi_{l}^{2} \psi_{l_{0}}^{2}}{W_{I} E_{l_{1}} - 2\widetilde{g}^{3} \alpha_{12}(W_{I})}; \quad \alpha_{l_{2}} = \sum_{l'} \frac{(l200 \mid l2l'0)^{2} \psi_{l}^{2} \psi_{l}^{2}}{(W_{I} - E_{l'2})}.$$

$$(15)$$

$$\alpha_{l,1} = \sum_{i} \frac{(l_0 \, 200 \, | \, l_0 \, 20)^2 \, \psi_l^2 \, \psi_l^2}{W_1 E_{1,1} - 2 \overline{g}^3 \, \alpha_{12} (IV_I)}; \quad \alpha_{l2} = \sum_{i'} \frac{(l \, 200 \, | \, 12 l' \, 0)^3 \, \psi_l^2 \, \psi_l^2}{(W_I - E_{1'2})}$$
(15')

The following expression holds for the eigenvalue of $V_{\overline{1}}$, which determines the energy levels of the odd nucleon: $\mathbb{V}_{I} = \mathbb{E}_{1_0} + \widetilde{g}^2 \alpha_{1_0 1} (\mathbb{V}_{I})$. This equation has to be solved to determine the energy levels of odd nuclei. This is done by assuming that the collective levels are located above the single-particle levels. For the case of a not very strong binding, the following expressions are obtained for the energy levels of single- and two-phonon states of the nucleus:

$$W_{1}^{I} = \overline{E}_{t_{1}} + \Delta W_{0} + \frac{2\left[\widetilde{g}^{2}\widetilde{\Psi}_{t}^{2}\widetilde{\Psi}_{t}^{2} + M\right]}{\overline{E}_{t_{1}} - \overline{E}_{t_{2}} + \Delta W_{0}};$$
(18)

Card 6/7

S/048/60/024/007/029/032/XX B019/B056

24,4500 AUTHOR:

Koroley, A. M.

TITLE:

The Excitation of the Collective Levels of a Nucleus in

Stripping Reactions

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 7, pp. 903-911

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. The author investigates the limiting case of stripping reactions, in which the spectrum of the collective oscillations has a vibrational character and where the initial nucleus is spherical. The residual nucleus is assumed to be weakly deformed after the capture of a neutron. Proceeding from the Hamiltonian of the collective interaction of nucleons with the surface of the nucleus (in agreement with the generalized Bohr atomic model), the author gives the wave function of the initial—and the final state of the system. For the transition matrix element he obtains $M = M_p + M_n$ in Born approximation, where M_p is the matrix element taking Card 1/3

The Excitation of the Collective Levels of a S/048/60/024/007/029/032/XX Nucleus in Stripping Reactions S/048/60/024/007/029/032/XX

the interaction of a proton with the nuclear surface into account, and $M_{\mathbf{n}}$ is the analogue for a neutron. An expression is obtained for Mn. From the discussion of this expression the author gathers that, in the stripping reaction both in case of a neutron capture on the ground state or the singleparticle excited level, and also in the case of an excitation of the collective levels of a nucleus, the angular distribution of the protons is determined by the orbital momentum l_0 . A similar expression is obtained for Mp. In the final part of this paper, an expression is obtained for the angular distribution of protons in the (d,p) reaction. This expression consists of three terms, of which the first gives the proton angular distribution on the basis of the collective interaction of a proton with the nuclear surface. The latter agrees fully with the results obtained by Butler (Ref. 1). The third term characterizes the collective interaction of protons, and gives an angular distribution, which does not agree with the results obtained by Butler. The second term characterizes the interference between these processes. The expression obtained here is not only correct in the case of the excitation of the collective levels, but also for single-particle levels. There are 12 references: 4 Soviet, 4 US, 1 British, 1 Danish, and 1 Dutch.

Card 2/3

S/048/60/024/007/031/032/XX B019/B056

14. 4500 AUTHORS: Gurin, Yu. L., Korolev, A. M., and Konstantinov, B. D.

TITLE:

The Magnetic and Quadrupole Moments of Weakly Deformed Nuclei

Lis Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

PERIODICAL: Izvestiya Akademii nauk SSSI Vol. 24, No. 7, pp. 920-923

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. B. D. Konstantinov et al. (Ref. 2) derived the expressions for the magnetic and quadrupole moments for deformed nuclei. With respect to these nuclei it had been assumed that between the external nucleon and the nuclear surface an intermediate coupling existed. The nuclear radii were determined for the calculation of the moments by means of the formula

 $R_0 = (1.27\text{\AA}^{1/3} + 0.6) \cdot 10^{-13}$ cm. The potential well depth V_0 was determined from the coupling energy of the last nucleon of an even-even nucleus. The energy of the first collective level of an even-even nucleus was determined energy of the first collective level of an even-even nucleus was determined energy of the extranucleon with from experimental data, and the coupling constant of the extranucleon with

Card 1/5

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• APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824810013-4

The Magnetic and Quadrupole Moments of Weakly Deformed Nuclei

S/048/60/024/007/031/032/XX B019/B056

the nuclear surface was selected so that the calculated energy of the ground state agreed with the experimental values. Under these assumptions, the magnetic quadrupole moments were calculated for nuclei with an odd the magnetic quadrupole moments were calculated for nuclei with an odd proton number neutron number (Table 1), as well as for nuclei with an odd proton number. As may be seen, the generalized model, when applied to weakly deformed nuclei, gives better results than the shell model.

The Magnetic and Quadrupole Moments of Weakly Deformed Nuclei

S/048/60/024/007/031/032/XX B019/B056

Table 2: Magnetic and Quadrupole Moments of Nuclei With Odd Proton Number

Таблица 2

Маглитные	13	квадрупоаьные	номенты	ялер.	исчетных	по	протонам	
	_	THE PROPERTY OF THE PARTY OF TH		and of lak	**** **********************************		Total a state of	_

•				HAG	13	3.	N. Ditte.		Q, e × 10 ⁻¹⁶ CM ³		
Пдро	z	N	A	Основи	555	3.5	Guep.	одночаст.	Tenner	Bugnapura	
1,	1	3	4	885	70 g	- F /	= 3 6	11	теорет.	энсперим.	
Co Cu In Sb Tl Bi	27 29 49 51 81 83	32 34 66 70 122 120	59 63 115 121 203 209	f ¹ / ₂ P ¹ / ₃ g ¹ / ₂ d ¹ / ₃ S ¹ / ₃ l ¹ / ₄	5,793 3,793 6,793 4,793 2,793 2,623	4,730 2,759 5,355 4,993 1,778 1,824	4.648 2,226 5,500 3,360 1.612 4.082	0.08 -0.06 0.15 -0.13 0 -0.2	+0,456 -0,563 +3,651 -0,205 0 -0,994	$\begin{bmatrix} 0,500 \\ -(0,13\pm \\ \pm 0,01) \\ 1,161 \\ -(0,3\pm 0,2) \\ 0 \\ -0,4 \end{bmatrix}$	

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CIA-RDP86-00513R000824810013-4

7 / 1 -EV 11 11

\$/185/62/007/005/002/013 D407/D301

AUTHORS:

Tsan Yu-t'ai and Korol'ov, O.M.

TITLE:

On the theory of stripping reactions

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 5, 1962,

470 - 474

TEXT: The differential cross-section of the stripping reaction is calculated in the Born approximation, allowance being made for the D-wave contribution to the deuteron wave-function. The authors consider the effect of the tensor interaction of the deuteron nucleons on the angular distribution of protons in the stripping reaction; this is done for the case of large angles of escape of protons. In the references, this effect was assumed as small, owing to the small magnitude of the D-wave contribution. The (d, p)-reaction on even-even nuclei is considered. Formulas are given for the wave functions of the initial- and final state of the system. The formula for the effective differential cross-section of the stripping reaction contains radial integrals which are calculated by successive differentiation and by using recursion formulas for spherical Card 1/4

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CIA-RDP86-00513R000824810013-4

\$/185/62/007/005/002/013 D407/D301

On the theory of stripping reactions

Bessel functions; hence one obtains

 $/ (\vartheta) = (2j+1) \left(\frac{2MR^2}{\hbar^2} V \right)^2 \frac{2M \gamma_{l_n} N^2}{\hbar^2 R^{\alpha_1}} \left(\frac{1}{\kappa_n^2 + k^2} \right)^2 \times$ (61) $\times \left(kj_{l_n-1}(kR)-\varkappa_nj_{l_n}(kR)\frac{Kl_n-1}{Kl_n(\varkappa_nR)}\right)^2G_s^2(b)\left\{1+\tilde{c}^2(b)\right\},\,$

where M denotes the reduced mass of the proton and deuteron; $\tilde{\sigma}$ - the angle of escape of the proton; γ - the reduced width of the oneparticle nuclear level; &n - the coupling energy of the captured neutron; x_n is related to M, ϵ and \hbar ; j and K are spherical Besseland MacDonal functions; G represents the momentum distribution of the relative motion in the S-state of the deuteron (G is a function of the parameters β , γ , b, being related to Hulthen's function \forall). Fig. 1 shows the distribution functions $G_d(b)$ and $G_d(b)$ for the D-wave in momentum space with the following parameter values: β = 4.75, γ = 3, and the effective deuteron-radius ρ = 1.704.10-13 cm. Another figure shows the corresponding functions $\delta(b)$ and $\tilde{\delta}(b)$, representing the relative contribution of the D-wave to the angular Card 2/4

S/185/62/007/006/004/014 D407/D301

Deuteron splitting under ...

ASSOCIATION: Instytut fizyky AN UkrRSR, Kyyiv (Institute of Physics of the AS UkrRSR, Kiyev)

SUBMITTED: January 3, 1962

Card 4/4

CIA-RDP86-00513R000824810013-4" APPROVED FOR RELEASE: 06/14/2000

S/048/62/026/008/027/028 B104/B102

AUTHOR:

Korolev, A. M.

TITLE:

Collective interaction of neutrons with spherical nuclei

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 8, 1962, 1101-1112

TEXT: A quantum-mechanical system consisting of a neutron and a spherical nucleus with A nucleons is studied. It is assumed that collective degrees of freedom (surface vibrations) of the nucleus are excited in its interaction with a neutron. Using the method of H. Feshbach (Ann. of Phys., 5. 357 (1958)), the real and imaginary parts of the optical potential of the neutron are calculated and it is shown that intermediate quasisteady states of the system exist in the excitation of the first collective level. The inelastic scattering of neutrons from spherical nuclei is also studied. In the periodic system the spherical nuclei come close to the magic ones, and the energy of incident neutrons is near the isolated collective resonance. The possibility of a compound nucleus being formed is taken into account, but that of a direct interaction between the neutron and the Card 1/2

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S/048/62/026/008/027/028 B104/B102

Collective interaction of ...

nucleus is not considered. There are 3 figures.

ASSOCIATION: Institut fiziki Akademii nauk USSR (Institute of Physics of the Academy of Sciences UkrssR)

Card 2/2

KOROLEV, A.M.

Gollective interaction between neutrons and spherical nuclei. Izv. AN SSSR. Ser. fiz. 26 no.8:1101-1112 Ag '62. (MIRA 15:11)

1. Institut fiziki AN UkrSSR.
(Nuclear reactions) (Neutrons)

KOROLEV, A.M. [Korol'ov, O.M.]

Role of the Coulomb interaction in the (d, p) reaction.

Ukr. fiz. zhur. 8 no.5:523-531 My 63. (MIRA 16:8)

1. Institut fiziki AN UkrSSR, Kiyev.

KOROLEV, A.M. Shape of the self-consistent potential. Izv. AN SSSR. Ser. fiz. 29 no.7:1151-1156 J1 '65. Energy levels of even-even nuclei. Ibid.:1157-1159 (MIRA 18:7) 1. Institut fiziki AN UkrSSR.

KOROLEV, A.M. [Korol'ov, 0.M.]

Bound states of a particle roving in a nonlocal potential.

Ukr. fis. shur. 10 no.9:969-976 S '65. (Miss 18:9)

1. Institut fiziki AN UkrSSR, Kiyev.

L 08719-67 EWT(m)/EWP(j) WW/JW/RM

ACC NRi AP6032593 SOURCE CODE: UR/0062/66/000/008/1436/144C

AUTHOR: Yeremenko, L. T.; Korolev, A. M.

29

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Esterification of alcohols with nitric acid. Communication 2. Selective nitration of primary hydroxyl groups in polyhydric alcohols A

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1966, 1436-1440

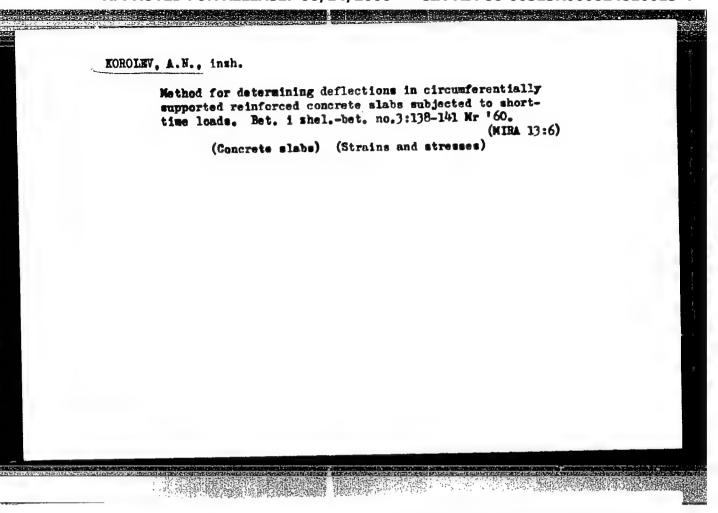
TOPIC TAGS: mesoerythritol, esterification, quantum nitric acid, polyhydric alcohol, nitration, ALCOHOL

ABSTRACT: The results of an earlier study by the authors have indicated that esterification of polyhydric alcohols with nitric acid of a concentration below 80% yields only primary nitrates. To verify this indication, a study has been made of the esterification of mesocrythritol with excess 79% nitric acid. The esterification product was identified by elemental analysis as crythritol dinitrate. The structure of the product, determined by IR spectroscopy, was identical to that of the product of the oxidation of cis-2-butene-1,4-diol with potassium permanganate. As this product is known to be crythritol 1,4-dinitrate, it was concluded that selective esterification of normal polyhydric alcohols with nitric acid of a concentration below

Cord 1/2

UDC: 542.958.1+662.232

Card 2/2 nat



KOROLEV, A. N., Cand. Tech. Sci. (diss) "Development of Method of Computation of Buckling of Reinforced Concrete Plates, Based on Shape and Span without Girders under Effect of Brief Loading," Moscow, 1961, 11 pp. (Acad. of Construc. and Architec. USSR, Sc. Res. Inst. Concrete and Reinf. Concr. "NIIZhB") 180 copies (EL Supp 12-61, 268).

Method of calculating the flexures of reinforced concrete slabs supported along the edge and girderless roofs under the effect of brief loading. Trudy NIIZHB no.26:59-119 '62. (MIRA 15:7)

(Precast concrete--Testing)

KOROLEV, Aleksey Nikolayavich, kand.tekhn.nauk; SHUVALOV, S.I., spetsred.; NIKOLAYEV, A.M., spetsred.; KORBUT, L.V., red.; PEREDERIY, S.P., tekhn.red.

[Technology of hard cheeses] Tekhnologiia tverdykh syrov.

Moskva, Pishchepromizdat, 1960. 58 p. (MIRA 14:6)

(Cheese)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RD

CIA-RDP86-00513R000824810013-4

KOROLEV. M.N.

DIMENT'INV. I.V., inzh.; ZHERNAKOV. Yu. I., inzh.; NIKOLIN, V.I., inzh.;

KOROLEV. A.I., inzh. [deceased]; TOMAKOV. V.A., inzh.

Using sublevel caving systems in piller extraction. Hezop. truda v

prom. 2 no.3:13-14 Wr '58.

1. Institut UNIFRONDO.

(Copper mines and mining)

KOROLHV. A.N., kand.med.nauk

Course of pregnancy and labor in multiple pregnancy. Vcp.okh. mat. i det. 3 no.1:52-54 Ja-F '58. (MIRA 11:2)

1. Iz akushersko-ginekologicheskov kliniki Gor'kovskogo meditsinskogo instituta imeni S.M.Kirova (zav. kafedroy - prof. K.G. Cherepakhin)

(BIRTH, MULTIPLE) (PREGNANCY, COMPLICATIONS OF)

KOROLEV, A.N., kand.med.nauk

Effect of nephropathy in pregnant women on the fetus and newborn infants. Sbor. nauch. rab. Kaf. akush. i gin. GMI no.2:39-40 (MIRA 15:4)

1. Iz akushersko-ginekologicheskoy kliniki (direktor prof. G.K. Cherepakhin) Gor'kovskogo meditsinskogo instituta im. S.M.Kirova. (KIDNEYS-DISEASES) (PREGNANCY, COMPLICATIONS OF)

KOROLEY, A.N., kand, med. nauk

Clinical evaluation of the method of anesthesia in labor using hexenal. Sbor.nauch. rab. Kaf. akush. i gin. GMI no.1:92-93 '60. (MIRA 15:4)

1. Iz akushersko-ginekologicheskoy kliniki (direktor - prof. G.K. Cherepakhin) Gor'kovakogo gos. meditsinakogo instituta. (HEXOBARBITAL) (ANESTHESIA IN OBSTATRICS)

KOROLEV, A.N., kand.med.nauk

Disorder of cerebral circulation in newborn infants depending on the state of health of the gravida and the course of labor; its prevention and treatment. Shor. nauch. rab. Kaf. akush. i gin. GMI no.1:120-123 (MIRA 15:4)

1. Iz akushersko-ginekologicheskoy kliniki, direktor prof. G.K. Cherepakhin Gor'kovskogo gos.meditsinskogo instituta. (BRAIN--BLOOD SUPPLY) (INFANTS (NEWBORN)--DISEASES)

TSYPKIN, Yakov Zalmanowich; KOROLEV, A.N., red.; RUTMAN, R.S., red.; KRYUCHKOVA, V.N., tekhn. red.

[Theory of linear pulse systems] Teoriia lineinykh impul's-nykh sistem. Moskva, Fizmatgiz, 1963. 968 p. (MIRA 16:7) (Pulse techniques (Electronics))

MORDVINKIN, N.A.; KOROLEV, A.N.

Forty years of the railroad car industry. Zhel.dor.transp. 39
no.11:46-50 N '57. (MIRA 10:10)

1. Glavnyy inzh. Glavnogo upravleniya vagonnogo khozyaystva Miniaterstva putey soobshcheniya (for Mordvinkin). 2. Zamestitel'
glavnogo inzhenera Glavnogo upravleniya vagonnogo khozyaystva
Ministerstva putey soobshcheniya (for Korolev).

(Railroads--Care)

KOROLEV, A.N.

Over-all mechanization of car handling operations. Zhel.dcr. transp. 43 no.6:33-38 Je '61. (MIRA 14:7)

1. Zamestitel' glavnogo inzhenera Glavnogo upravleniya vagonnogo khozyaystva Ministerstva putey soobshcheniya.

(Railroads—Rolling stock)

KRIVORUCHKO, Nikolay Zakharovich, kand. tekhn. nauk; SLUSHAYENKO, A.M., dotsent, retsenzent; IELISEYEV, F.G., dots., retsenzent; LERNET, K.S., dots., retsenzent; KIYANOV, P.I., inzh., retsenzent; TSIHIDANOV, V.M., inzh., retsenzent; DOROFEYEV, V.G., inzh., retsenzent; KAIEDENKOV, S.S., inzh., retsenzent; KOROLEV, A.N., inzh., retsenzent; LOKSHIN, Kh.A., inzh., retsenzent; FIRSOV, S.I., inzh., retsenzent; SHAKURSKIY, K.D., inzh., retsenzent; UTKIN, A.V., tekh., retsenzent; VAIETOV, A.I., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Operation, management, and repair of rolling stock] Vagonnoe khoziaistvo. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 319 p. (MIRA 14:11)

1. Kafedra "Konstruktsiya, remont i ekspluatatsiya vagonov" Rostov-skogo instituta inzhenerov zheleznodorozhnogo transporta (for all except Valetov, Bobrova).

(Railroads—Rolling stock)

BEZTSENNYY, V.I.; KOROLEV, A.N.

Further improvement of the rolling stock. Zhel.dor.transp. 44 no.1:32-37 Ja '62. (MIRA 14:12)

1. Glavnyy inzhener Glavnogo upravleniya vagonnogo khozyaystva
Ministerstva putey soobshcheniya (for Beztsonny). 2. Zamestitel*
glavnogo inzhenera Glavnogo upravleniya vagonnogo khozyaystva
Ministerstva putey soobshcheniya (for Korolev).

(Railroads-Rolling stock)

KOROLEV, Aleksandr Nikiforovich; POPOV, Aleksandr Ivanovich; SIZOV, K.P., inzh., retsenzent; YAKOVLEV, I.N., inzh., retsenzent; SARANTSEV, Yu.S., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Economics, organization, and planning of railroad car operation] Ekonomika, organizatsiia i planirovanie vagonnogo khoziaistva. Moskva, Transzheldorizdat, 1962. 290 p. (MTRA 15:12)

(Railroads-Rolling stock)

YEMEL'YANOV, N.P.; VEL'MIN, A.A.; KOLOMIYCHENKO, V.V.; KOROLEV,
A.N., inzh., retsenzent; BRAYLOVSKIY, N.G., inzh., red.;
KHITROVA, N.A., tekhn. red.

[Build-up welding of automatic-coupler parts using a laying lamellar electrode under flux] Naplavka detalei avtostsepki pod fliusom lezhachim plastinchatym elektrodom. Moskva,
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NAGIBINA, I.M.; KOROLEV, A.N.

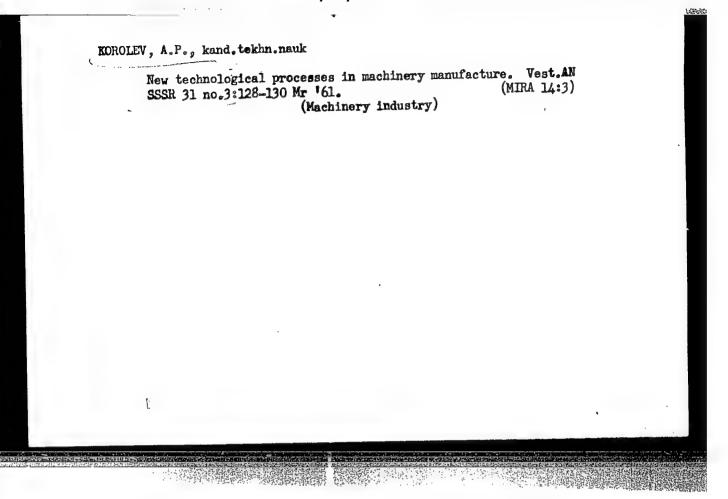
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SKOROKHODOV, N.Ye., kandidat tekhnicheskikh nauk, dotsent; GOLUBEV, T.M., professor, doktor tekhnicheskikh nauk; ZAYKOV, M.A., kandidat tekhnicheskikh nauk; CHELYSHEV, N.A., kandidat tekhnicheskikh nauk, dotsent; KOROLUV. A.S., inshener; OSHIN, V.I., inshener.

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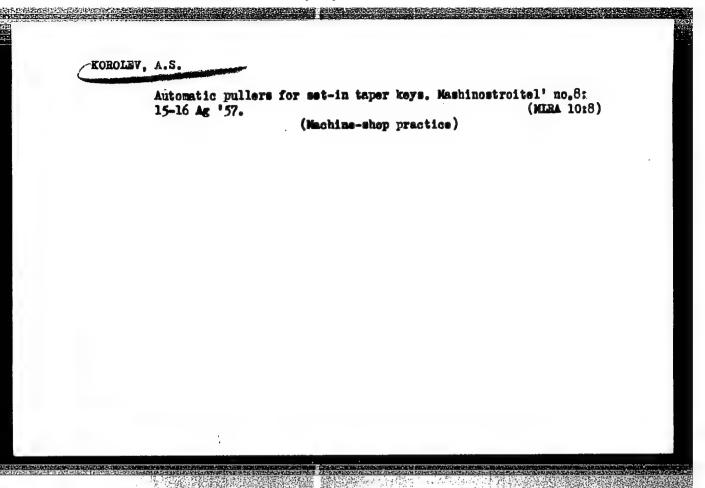
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SKOROKHODOV, N.Te., dotsent; KUCHKO, I.I., inzhener; KOROLEV, A.S.;
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ZAYKOV, M.A., dotsent; FROLOV, N.P., insh.; KOROLEV, A.S.,
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